## **CLAIMS**:

- 1. (Currently Amended) A method for <u>reducing insulin and/or glucose plasma</u> <u>level(s) in a subject afflicted with treating the disease</u> diabetes, <u>mellitus</u> comprising administrating to a <u>the subject in need thereof</u> an effective amount of crude Dunaliella powder, thereby <u>reducing the subject's plasma insulin and/or glucose plasma level(s) treating the disease</u>.
- 2. (Currently Amended) A method for increasing HDL cholesterol levels in the plasma of a subject <u>having low HLD cholesterol levels</u> in need thereof, comprising administrating to the subject an effective amount of crude Dunaliella powder, thereby increasing the HDL cholesterol level in a statistically significant manner.
- 3. (Original) The method according to claim 1 wherein said crude Dunaliella powder is administered together with one or more activators of nuclear receptors.
- 4. (Original) The method according to Claim 3 wherein the activators of nuclear receptors are peroxisome proliferator-activated receptor α or γ (PPARα or PPARγ) agonists.
- 5. (Original) The method according to Claim 4 wherein the PPARα or PPARγ agonists are selected from fibrates and thiazolidinediones.
- 6. (Original) The method according to Claim 5 wherein the fibrates are selected from clofibrate, fenofibrate, bezafibrate, ciprofibrate, beclofibrate and gemfibrozil.
- 7. (Previously Presented) The method according to Claim 5 wherein the thiazolidinediones are selected from troglitazone, BRL 49653, pioglitazone, ciglitazone, WAY-120,744, englitazone, AD 5075, darglitazone and rosiglitazone.
- 8. (Original) The method according to Claim 1 wherein said crude Dunaliella powder is administered orally.
- 9. (Previously Presented) The method according to Claim 1 wherein said Dunaliella is Dunaliella bardawil.
- 10. (Original) The method according to Claim 1, wherein said powder is encapsulated.
- 11. (Original) The method according to claim 2 wherein said crude Dunaliella powder is administered together with one or more activators of nuclear receptors.
- 12. (Original) The method according to Claim 11 wherein the activators of nuclear receptors are peroxisome proliferator-activated receptor  $\alpha$  or  $\gamma$  (PPAR $\alpha$  or PPAR $\gamma$ ) agonists.
- 13. (Original) The method according to Claim 12 wherein the PPAR $\alpha$  or PPAR $\gamma$  agonists are selected from fibrates and thiazolidinediones.

- 14. (Original) The method according to Claim 13 wherein the fibrates are selected from clofibrate, fenofibrate, bezafibrate, ciprofibrate, beclofibrate and gemfibrozil.
- 15. (Previously Presented) The method according to Claim 13 wherein the thiazolidinediones are selected from troglitazone, BRL 49653, pioglitazone, ciglitazone, WAY-120,744, englitazone, AD 5075, darglitazone and rosiglitazone.
- 16. (Original) The method according to Claim 2 wherein said crude Dunaliella powder is administered orally.
- 17. (Previously Presented) The method according to Claim 2 wherein said Dunaliella is Dunaliella bardawil.
- 18. (Original) The method according to Claim 2, wherein said powder is encapsulated.
- 19. (Currently Amended) A method for treating the disease atherosclerosis, comprising administrating to a subject in need thereof an effective amount of crude Dunaliella powder together with one or more activators of nuclear receptors, thereby treating the disease.
- 20. (Previously Presented) The method according to Claim 19 wherein the activators of nuclear receptors are peroxisome proliferator-activated receptor  $\alpha$  or  $\gamma$  (PPAR $\alpha$  or PPAR $\gamma$ ) agonists.
- 21. (Previously Presented) The method according to Claim 20 wherein the PPARα or PPARγ agonists are selected from fibrates and thiazolidinediones.
- 22. (Previously Presented) The method according to Claim 21 wherein the fibrates are selected from clofibrate, fenofibrate, bezafibrate, ciprofibrate, beclofibrate and gemfibrozil.
- 23. (Previously Presented) The method according to Claim 21 wherein the thiazolidinediones are selected from troglitazone, BRL 49653, pioglitazone, ciglitazone, WAY-120,744, englitazone, AD 5075, darglitazone and rosiglitazone.
- 24. (Previously Presented) The method according to Claim 19 wherein said crude Dunaliella powder is administered orally.
- 25. (Previously Presented) The method according to Claim 19 wherein said Dunaliella is Dunaliella bardawil.
- 26. (Previously Presented) The method according to Claim 19 wherein said powder is encapsulated.
- 27. (New) A method for reducing the size of an atherosclerotic plaque or lesion at the aortic sinus of a subject afflicted with atherosclerosis, comprising administrating to the subject an

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effective amount of crude Dunaliella powder together with one or more activators of nuclear receptors, thereby reducing the size of the aortic sinus plaque or lesion.